

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------|------------------|---------|------------------|
| S1    | 47   | copper.ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate)               | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:26 |
| S2    | 162  | copper.bsum. and (ald OR atomic near4 deposit\$4).bsum. and (diketonate OR \$6diketonate)           | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:27 |
| S3    | 62   | copper.ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate OR hfac)       | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:28 |
| S4    | 62   | copper.ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$8diketonate OR hfac)       | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:28 |
| S5    | 161  | copper.bsum. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$8diketonate OR hfac)     | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:28 |
| S6    | 49   | ("cu" OR copper).ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate)     | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:29 |
| S7    | 64   | ("cu" OR copper).ab. and (ald OR atomic near4 deposit\$4).bsum. and (diketonate OR \$6diketonate)   | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:29 |
| S8    | 11   | ("cu" OR copper).ab. and (monolayer OR mono?layer).ab. and (diketonate OR \$6diketonate)            | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:30 |
| S9    | 9    | ("cu" OR copper).ab. and (pulse).ab. and (diketonate OR \$10diketonate)                             | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:31 |
| S10   | 29   | (norman OR sneh).in. and (diketonate OR \$10diketonate) and (ald OR atomic near5 deposit\$6)        | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:31 |
| S11   | 50   | (cu\$4 OR copper\$5).ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate) | US-PGPUB; USPAT; USOCR | ADJ              | ON      | 2011/06/28 10:32 |

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| S12 | 1   | ("6368954").PN.   | US-<br>PGPUB;<br>USPAT;<br>USOCR | OR  | OFF | 2011/06/28<br>10:34 |
| S13 | 49  | ("cu" OR copper).ab. and (atomic<br>near3 layer OR ALD OR ALE OR<br>ALCVD).ab. and (diketonate OR<br>\$6diketonate)     | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:37 |
| S14 | 49  | ("cu" OR copper).ab. and (atomic<br>WITH layer OR ALD OR ALE OR<br>ALCVD).ab. and (diketonate OR<br>\$6diketonate)      | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:37 |
| S15 | 234 | ("cu" OR copper) and (atomic WITH<br>layer OR ALD OR ALE OR ALCVD).<br>ab. and (diketonate OR<br>\$6diketonate)         | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:39 |
| S16 | 234 | ("cu" OR copper) and (atomic WITH<br>layer OR ALD OR ALE OR ALCVD).<br>ab. and (diketonate OR<br>\$10diketonate)        | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:39 |
| S17 | 564 | ("cu" OR copper) and (atomic WITH<br>layer OR ALD OR ALE OR ALCVD)<br>and (diketonate OR \$10diketonate)                | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:40 |
| S18 | 47  | S17 and 427/248.1.ccls.   | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:40 |
| S19 | 378 | (atomic WITH layer OR ALD OR ALE<br>OR ALCVD).ab. and (diketonate OR<br>\$10diketonate)                                 | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:41 |
| S20 | 477 | (atomic WITH layer OR ALD OR ALE<br>OR ALCVD).ab. and (diketonate OR<br>\$10diketonate OR hfac)                         | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:42 |
| S21 | 321 | (atomic WITH layer OR ALD OR ALE<br>OR ALCVD).ab. and (diketonate OR<br>\$10diketonate OR hfac) and (copper<br>OR "cu") | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:42 |
| S22 | 48  | (monolayer OR mono?layer).ab. and<br>(diketonate OR \$10diketonate OR<br>hfac) and (copper OR "cu")                     | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:43 |
| S23 | 288 | ((atomic OR alternat\$8) WITH<br>deposit\$6).ab. and (diketonate OR<br>\$10diketonate OR hfac) and (copper<br>OR "cu")  | US-<br>PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2011/06/28<br>10:44 |
| S24 | 1   | (09/791409).APP.  | US-<br>PGPUB;<br>USPAT;<br>USOCR | OR  | OFF | 2011/06/28<br>10:46 |

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| S25 | 23  | norman.in. and (\$diketonate OR ".beta.diketonate") and (atomic OR alternat\$4) WITH (deposit\$6 OR epitaxy)   | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/06/28 10:48 |
| S26 | 5   | sneh.in. and (\$diketonate OR ".beta.diketonate") and (atomic OR alternat\$4) WITH (deposit\$6 OR epitaxy)   | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/06/28 10:48 |
| S27 | 180 | (\$diketonate OR ".beta.diketonate") and (atomic OR alternat\$4) WITH (deposit\$6 OR epitaxy).ab.  | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/06/28 10:52 |
| S28 | 1   | ("6464779").PN.  | US-PGPUB; USPAT; USOCR | OR  | OFF | 2011/06/28 13:56 |
| S29 | 117 | ("cu" OR copper).ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate OR ligand OR hexafluoroacetylacetonate OR hfac OR hexfluoro? acetylacetonate OR \$4hfac\$4)                     | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/06/28 14:26 |
| S30 | 117 | ("cu" OR copper).ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate OR ligand OR hexafluoroacetylacetonate OR hfac OR hexfluoro? acetylacetonate OR \$4hfac\$4 OR Cu (11) Cu?11)    | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/06/28 14:29 |
| S31 | 118 | ("cu" OR copper).ab. and (ald OR atomic near4 deposit\$4).ab. and (diketonate OR \$6diketonate OR ligand OR hexafluoroacetylacetonate OR hfac OR hexfluoro? acetylacetonate OR \$4hfac\$4 OR Cu (11) OR Cu?11) | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/06/28 14:29 |
| S32 | 1   | (10/591476).APP.   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2011/06/28 14:35 |
| S33 | 1   | ("20020013487").PN.  | US-PGPUB; USPAT; USOCR | OR  | OFF | 2011/07/04 17:31 |
| S34 | 143 | copper.ab. and "h.sub.2" SAME plasma AND (atomic near5 deposition)   | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/07/04 17:39 |
| S35 | 65  | copper.ab. and "h.sub.2" SAME plasma SAME reduc\$6 AND (atomic near5 deposition)   | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2011/07/04 17:40 |

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| S36 | 1 | (09/766143).APP. | US-<br>PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2011/07/04<br>17:42 |
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**EAST Search History (Interference)**

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**7/ 4/ 2011 9:49:51 PM**

**H:\ EAST Workspaces\ Production\ Kojima\_10591476\_copper\_carboxylic\_acid\_film\_reduction03.  
pts.wsp**